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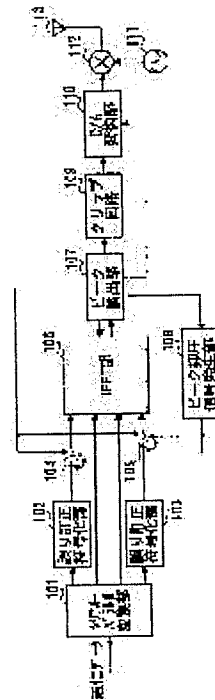
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(54) UNIT AND METHOD FOR MULTI-CARRIER COMMUNICATION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a multi-carrier communication unit that can suppress peak power while preventing reduction of transmission efficiency.

SOLUTION: A serial/parallel conversion section 101 converts transmission data of one sequence into transmission data of a plurality of sequences, outputs the transmission data of the 1st and 4th sequences respectively to error correction coding sections 102, 103 and outputs the transmission data of the 2nd and 3rd sequences to an IFFT(Inverse Fast Fourier Transform) section 106. The IFFT section 106 uses the transmission data of the 2nd and 3rd sequences and the transmission data of the 1st and 4th sequences after the error correction coding processing to generate an OFDM signal. A peak detection section 107 detects the peak power of the generated OFDM signal. When the detected peak power exceeds a threshold value, the IFFT section 106 reproduces the OFDM signal by using a peak suppression signal from a peak suppression signal generating section 108 in place of the transmission data of the 1st and 4th sequences.



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